

**IN THE CLAIMS**

Please amend claims 4 and 19 in accordance with the following listing showing the status of all claims in the application.

1. (Previously Presented) A system for detecting heat, radiation and/or pollutants, said system comprising:

a housing assembly; and

a cartridge detachably mountable within said housing assembly,

wherein said cartridge contains a detection apparatus for detecting at least one of heat, radiation and pollutants, and

wherein said detection apparatus includes detection circuitry, a power source and an alarm such that said cartridge is operable independently of said housing assembly to detect said at least one of heat, radiation and pollutants and to activate said alarm upon said detection.

2. (Previously Presented) A system according to claim 1 wherein said housing assembly comprises an upper housing member and a base, the upper housing member and the base being adapted to be fitted together so as to provide an opening to slidably receive the cartridge within said housing assembly.

3. (Previously Presented) A system according to claim 2 wherein the base comprises:

support means; and

carrier means slidably mounted on the support means for sliding movement into and out of said housing assembly,

wherein said carrier means is adapted to seat the cartridge thereon for insertion of said cartridge into said housing assembly.

4. (Currently Amended) A system ~~according to claim 1, further~~ for detecting heat, radiation and/or pollutants, said system comprising:

\_\_\_\_\_ a housing assembly;

\_\_\_\_\_ a cartridge detachably mountable within said housing assembly;

a first electrical connector located within said housing assembly and connectable to an external power supply; and

a second electrical connector disposed on said cartridge and electrically connected to said detection apparatus,

wherein said cartridge contains a detection apparatus for detecting at least one of heat, radiation and pollutants,

\_\_\_\_\_ wherein said detection apparatus includes detection circuitry, a power source and an alarm such that said cartridge is operable independently of said housing assembly to detect said at least one of heat, radiation and pollutants and to activate said alarm upon said detection, and

wherein said second electrical connector is engageable with said first electrical connector when said cartridge is inserted fully into said housing assembly, thereby allowing said detection apparatus to be powered by said external power supply.

5. (Previously Presented) A system according to claim 4, further comprising a cover that is movable between first and second positions in response to insertion and removal of said cartridge into and from said housing assembly, and wherein in said first position said cover restricts physical access to the first electrical connector and in said second position said cover allows engagement of said first and second electrical connectors.

6. (Canceled)

7. (Previously Presented) A system for detecting heat, radiation and/or pollutants, said system comprising:

a housing assembly; and

a cartridge detachably mountable within said housing assembly,

wherein said cartridge contains a detection apparatus for detecting at least one of heat, radiation and pollutants, and

wherein said detection apparatus includes detection circuitry, a power source and an alarm such that said cartridge is operable independently of said housing assembly to detect said at least one of heat, radiation and pollutants and to activate said alarm upon said detection, and

wherein the cartridge has a plurality of apertures to allow passage of said at least one of heat, radiation and pollutants into the cartridge for detection by said detection apparatus, and wherein said cartridge further comprises closure means on said cartridge for closing said apertures, said closure means being movable between first

and second positions, wherein in said first position said closure means closes said apertures and in said second position said closure means opens said apertures.

8. (Canceled)

9. (Previously Presented) A system according to claim 7, wherein said closure means is movable between said first and second positions in response to insertion and removal of said cartridge into and from said housing assembly.

10. (Previously Presented) A system according to claim 4, wherein said cartridge further comprises a control circuit responsive to the energizing and de-energizing of said external power supply a preset number of times over a preset time period to apply a reset signal to the detection apparatus, thereby to reset the detection apparatus.

11. (Previously Presented) A system according to claim 4, wherein said cartridge has a control circuit responsive to the energizing and de-energizing of said external power supply a preset number of times over a preset time period to apply a test signal to the detection apparatus, thereby to test the detection apparatus.

12. (Canceled)

13. (Canceled)

14. (Previously Presented) A system according to claim 1, wherein the housing assembly further comprises a ceiling mount.

15. (Previously Presented) A system according to claim 1, wherein the cartridge is slidably mountable within the housing assembly.

16. (Previously Presented) A system according to claim 15, wherein the housing assembly includes a carrier for slidably mounting the cartridge within the housing assembly.

17. (Previously Presented) A system according to claim 16, wherein the carrier comprises at least one of a drawer and a tray.

18. (Previously Presented) A system according to claim 1, wherein the housing assembly includes a first connector for connecting to an external electrical power supply.

19. (Currently Amended) A system ~~according to claim 18, wherein the~~ for detecting heat, radiation and/or pollutants, said system comprising:

a housing assembly that includes a first connector for connecting to an external electrical power supply and a second connector for connecting the cartridge to electrical power from the external electrical power supply; and  
a cartridge detachably mountable within said housing assembly.

wherein said cartridge contains a detection apparatus for detecting at least one of heat, radiation and pollutants, and

                    wherein said detection apparatus includes detection circuitry, a power source and an alarm such that said cartridge is operable independently of said housing assembly to detect said at least one of heat, radiation and pollutants and to activate said alarm upon said detection.